Defense Distribution Depot San Joaquin, Tracy Facility — NPL

FFID: CA997150682700
Size: 908 acres
Mission: Store and distribute medical, textile, food, electronic, industrial, construction, chemical, and other supplies and equipment
HRS Score: 37.16; placed on NPL in August 1990
IAG Status: Federal facility agreement signed in 1991
Contaminants: Chlorinated solvents, heavy metals, pesticides, petroleum/oil/lubricants, and VOCs
Media Affected: Groundwater and soil
Funding to Date: $78.2 million
Estimated Cost to Completion (Completion Year): $30.6 million (FY2016)
Final Remedy in Place or Response Complete Date for All Sites: FY2003
Five-Year Review Status: Planned

Tracy, California

Restoration Background

Studies have identified 65 sites at this installation, including burn and disposal pits, underground storage tanks (USTs), hazardous waste storage sites, and other areas of contamination. Contamination has been identified in on-site soil and in on-site and off-site groundwater.

In FY86, a remedial investigation and feasibility study (RI/FS) was initiated to address groundwater and soil contamination. Between FY88 and FY91, 32 USTs were removed, along with 1,060 cubic yards of contaminated soil. In FY92, bottled drinking water was supplied to two nearby farm residences where wells were threatened with contamination. The depot also installed a pump-and-treat system consisting of an air-stripping plant with carbon adsorption, five extraction wells, and three injection wells.

A Record of Decision (ROD) for treatment of groundwater contamination was signed in early FY93 and modified in FY95 to allow natural attenuation of a portion of the contaminant plume outside the installation.

In FY95, an environmental geographic information system was established to facilitate RI/FS and remedial design and remedial action (RD/RA) work. The installation removed more than 1,000 cubic yards of contaminated soil at the child-care facility. An installationwide risk assessment was completed, and a proposed plan was prepared.

In FY96, the regulatory agencies concurred on an engineering evaluation and cost analysis and an action memorandum for removal of pesticide-contaminated soil from the former industrial pond and pipeline sites. Design work began for this removal action and for the installation of extraction wells and infiltration galleries for the Operable Unit (OU) 1 groundwater air-stripping pump-and-treat system.

In FY97, design of the industrial pond soil removal action and the final sitewide RI/FS were completed. A removal action for pesticide-contaminated soil began. Contaminated-soil removal actions were performed at five former UST sites, and approximately 376 cubic yards of contaminated soil was removed.

During FY98, a sitewide comprehensive ROD was signed, the removal action for industrial pond soil was completed, and the RD for the remaining sites was prepared. The full-scale, low-flow groundwater-sampling system went into operation.

In FY99, the OU1 groundwater extraction and treatment system (Treatment Plant [TP] 2) went into operation. The design of the OU2 trichloroethene (TCE) and volatile organic compound (VOC) soil vapor extraction (SVE) systems was completed, as were removals of pesticide-contaminated soil at Sites 6, 20, and 27. Institutional controls (ICs) were implemented at several OU2 sites, and RD was completed for the rest of the sites. Wet-season controls were installed at the stormwater pond. A groundwater model was developed for the Tracy Site.

FY00 Restoration Progress

Modification of the groundwater systems at TP-1 and TP-2 was completed. The design of the SVE systems for sites designated in the OU2 ROD also was completed; however, remedial action construction was not finalized, preventing any actual operation of the systems.

The ecological risk assessment was prepared for OU2 Site 4. Based on the risk level, the remedy will most likely be ICs instead of the more costly soil removal. The installation is continuing negotiations with the state and EPA concerning this matter. Soil removal at metals and pesticide sites did not occur, due to lack of funding.

ICs were implemented at sites designated in the OU2 ROD, and the design work related to other OU2 RAs (e.g., soil removal, aggregate cap) was completed.

Plan of Action

- Continue operation and optimization of TP-1 and TP-2 through end of FY02
- Implement or complete OU2 RAs at Sites 4, 6, 8, 20, and 27 by end of FY02
- Implement natural attenuation or in situ RA at remaining former UST sites by end of FY02
- Prepare OU2 soil sites RA reports by end of FY03
- Prepare OU1 groundwater interim RA report by end of FY03
- Complete 5-year review by end of FY04

FY01 Funding by Phase and Relative Risk